

MSDS Code: 790-745

AX PERMANENT YELLOW NO. 45204; or BPL-01 PERMANENT YELLOW LT. 45206

Revision date: 05/15/03

Date Printed: 04/21/04

NFPA Classification:

Health: 1

Flammability: 0

Instability: 0

Special Hazards:

HMIS Classification:

Health: 2 *

Flammability: 0

Reactivity: 0

Personal Protection:

* Indicates possible chronic health effects.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Name: Universal Dispersion Of Pigments

Product Use: Industrial pigment.

Supplier: ENGELHARD CORPORATION
101 WOOD AVENUE
ISELIN, NJ 08830-0770
+1-732-205-6913 FOR CUSTOMER SERVICE
+1-502-775-7288 FOR ENVIRONMENT, HEALTH, AND SAFETY

For Chemical Emergency Call CHEMTREC (24 hours):
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)
1-703-527-3887 (Outside Above Area)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient CAS Number	Weight in Percent (%)	Notes
Water 7732-18-5	10-20	None.
Ethylene Glycol 107-21-1	10-20	None.
Diethylene Glycol 111-46-6	10-20	None.
Industrial Pigment(s)	30-40	None.
Surfactant(s)	1-10	None.
Industrial Pigment	5-15	None.

Other Information: NOTE: The percentage by weight values reported for this product represent approximate formulation values.

3. HAZARDS IDENTIFICATION

Emergency Overview:

Color: Yellow
Form: Liquid
Odor: Odorless
Flash Point, °C: Not Determined

Most Important Hazards: May cause severe eye irritation. Prolonged or repeated exposure effects: May cause skin irritation. May cause gastrointestinal disorders. Central nervous system damage. May cause kidney damage. Causes respiratory tract irritation. May result in dizziness and drowsiness. May be fatal if swallowed.

Potential Health Effects:

Inhalation: Exposure to vapors or mists, generated at higher temperatures, may cause drowsiness and headache.

Ingestion: May cause tissue damage. May cause central nervous system effects. May cause liver and kidney damage. May be fatal if swallowed.

Skin Contact: Prolonged or repeated contact may cause skin irritation.

Eye Contact: May cause severe eye irritation. Causes redness and tearing. Causes blurred vision.

Carcinogenicity:

Ingredient CAS Number	Weight in Percent (%)	NTP (Y/N)	IARC (See Notes)	OSHA (Y/N)	ACGIH (See Notes)
Water 7732-18-5	10-20	N	N	N	N
Ethylene Glycol 107-21-1	10-20	N	N	N	A4
Diethylene Glycol 111-46-6	10-20	N	N	N	N
Industrial Pigment(s)	30-40	N	N	N	N
Surfactant(s)	1-10	N	N	N	N
Industrial Pigment	5-15	N	N3	N	A4

Notes:

IARC: Y1=Carcinogenic to humans; Y2A=Probably carcinogenic to humans; Y2B=Possibly carcinogenic to humans; N3=Not classifiable as to its carcinogenicity; N=Not studied or probably not carcinogenic.

ACGIH: A1=Confirmed human carcinogen; A2=Suspected human carcinogen; A3=Confirmed animal carcinogen; A4=Not classifiable as a human carcinogen; A5=Not suspected as a human carcinogen; N=Not studied.

Chronic Health Hazards: May cause formation of bladder stones. May cause bladder cancer. May cause liver and kidney damage.

Aggravated Medical Conditions: None known.

4. FIRST AID MEASURES

Inhalation: Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

Ingestion: Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

Skin Contact: Flush skin with large amounts of water. If irritation persists, get medical attention.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point, °C: Not Determined
Autoignition Temperature, °C: Not Determined
Lower Explosive Limit, %: Not Determined
Upper Explosive Limit, %: Not Determined

Extinguishing Media: Water. Carbon dioxide. Foam.

Fire Fighting Procedures: Positive pressure, self-contained breathing apparatus. Wear full protective clothing.

Unusual Fire and Explosion Hazards: Not a fire or explosion hazard. Toxic vapors are emitted in a fire condition.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Contain spillage. Neutralize with sodium bicarbonate, soda ash or lime. Soak up spill using an absorbent. Scoop into a suitable container.

7. HANDLING AND STORAGE

- Keep container closed.
- Keep from freezing.
- Wash thoroughly after handling.
- Avoid breathing mist.
- Avoid contact with eyes, skin and clothing.
- Use only with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient CAS Number	Weight in Percent (%)	OSHA PEL	ACGIH TLV
Water 7732-18-5	10-20	None Established	None Established
Ethylene Glycol 107-21-1	10-20	50 ppm Ceiling	39.4 ppm Ceiling
Diethylene Glycol 111-46-6	10-20	None Established	None Established
Industrial Pigment(s)	30-40	None Established	None Established
Surfactant(s)	1-10	None Established	None Established
Industrial Pigment	5-15	2 mg/m ³ (Containing no asbestos fibers, respirable dust)	2 mg/m ³ (Containing no asbestos fibers, respirable dust)

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 2003 standards. Unless otherwise noted, all OSHA PELs refer to 29 CFR Part 1910 Air Contaminants: Final Rule, June 30, 1993.

PEL TLV Notes: NOTE: Ingredient(s) are in a liquid phase. Not all exposure values may be applicable. Not expected to present an inhalation hazard.

Personal Protective Equipment: Safety glasses with side shields. Rubber or neoprene gloves.

Respiratory Protection: Use approved respiratory protection if exposure limits are exceeded, or overexposure is likely.

Ventilation: General ventilation. Local exhaust ventilation is recommended to control exposures to within applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid
Color: Yellow
Odor: Odorless

Vapor Pressure: Max: 17.5mm Hg (20 °C)
Specific Gravity: Min: 1 Max: 2
Evaporation Rate: Much < 1
Solubility (in water): Dispersible
pH: Min: 7 Max: 9

10. STABILITY AND REACTIVITY

Stability Data: Stable

Conditions/Hazards to Avoid: None anticipated

Incompatibility (Materials to Avoid): None anticipated.

Hazardous Decomposition Products: Oxides of carbon.

Polymerization: None anticipated.

Polymerization - Avoid: None anticipated.

11. TOXICOLOGICAL INFORMATION

Information on Product:

Information on Components:

Ingredient CAS Number	Weight in Percent (%)	Acute Toxicity - Oral	Acute Toxicity - Inhalation	Acute Toxicity - Dermal	Acute Toxicity - Other
Water 7732-18-5	10-20	Not Available	Not Available	Not Available	Not Available
Ethylene Glycol 107-21-1	10-20	5,500 mg/kg (child)	Not Available	Not Available	Not Available
Diethylene Glycol 111-46-6	10-20	21,000 mg (rat)	Not Available	Not Available	Not Available
Industrial Pigment(s)	30-40	> 5,000 mg/kg (rat)	Not Available	Not Available	Not Available
Surfactant(s)	1-10	1,310 mg/kg (rat)	Not Available	Not Available	Not Available
Industrial Pigment	5-15	Not Available	Not Available	Not Available	Not Available

12. ECOLOGICAL INFORMATION

Information on Product:

Environmental Fate: No data available.
Ecotoxicological Information: No data available.

13. DISPOSAL CONSIDERATIONS

US EPA Waste Number: Not Regulated

Disposal of Waste Method: Local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

14. TRANSPORT INFORMATION

International Transport Regulations:

US Transportation Regulations:

UN/PIN Number: Not Regulated
DOT Classification: Not Regulated

Canadian Transportation of Dangerous Goods (TDG):

TDG Classification: Not Regulated

15. REGULATORY INFORMATION

International Inventories:

United States:
Canada: Not Determined
Europe: Not Determined
Japan: Not Determined
Australia: Not Determined
Korea: Not Determined

US Federal Regulations:

Ingredient CAS Number	Weight in Percent (%)	Subject to SARA 313 Reporting
Water 7732-18-5	10-20	No
Ethylene Glycol 107-21-1	10-20	Yes
Diethylene Glycol 111-46-6	10-20	No
Industrial Pigment(s)	30-40	No
Surfactant(s)	1-10	No
Industrial Pigment	5-15	No

SARA 311/ 312 Hazard Categories:

Acute Health Hazard Chronic Health Hazard

CAA 602 Ozone Depleting Substances (ODS):

This product neither contains nor is manufactured with an ozone depleting substance subject to the labeling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

VOC Content: 430g/L

US State Regulations:

VOC Content (CARB): 550 g/Lg/L

Canadian Regulations:

WHMIS Classification:

Not Determined

16. OTHER INFORMATION

Revision number: 3

Prepared By: Engelhard Corporate Environmental Health & Safety Group

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses, and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Material Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current. Copyright Engelhard Corporation. License granted to make unlimited copies for internal use only. End of MSDS.....